

BUSYGIN, N.P., inzh. (Ufa)

Laying drain pipes without trenches using a punch. Stroi.
truboprov. 6 no.7:25 JI '61. (MIRA 14:8)
(Pipe) (Drainage)

BUSYGIN, N.V. (Kazan')

New ophthalmoscope. N.V. Busygin. Kaz. med. zhur. no.1:103-105
Ja-F'61 (MIRA 16 :11)

*

BOLDIN, K.M. (Yaroslavl'); DROZDOVA, Z.S.; LEVIN, R.I.; VAYSMAN, L.A.
(Kuybyshev-obl.); PODOSINOVSKIY, V.V. (Kazan'); SAYFULLINA, Kh.M.
(Kazan'); BUSYGIN, N.V. (Kazan'); RAZUMOVSKIY, Yu.K. (Leninogorsk);
GEL'FER, G.A., dotsent (Gor'kiy); MAMISH, M.G. (Kazan'); RAFALOVICH,
M.B., dotsent; MEL'NICHUK, S.P., kand.med.nauk; KRAPIVIN, B.V.;
STAROVEROV, A.T. (Saratov); SURIN, V.M.; PORosenkov, V.S. (Romodanovo,
Mordovskoy ASSR); ANDROSOV, M.D. (Moskva); ZARIPOV, Z.A. (Urussu,
Tatarskoy ASSR); MURAV'YEV, M.F. (Izhevsk); KUZ'MIN, V.I. (Batyrevo,
Chuvashskoy ASSR); SITDYKOV, E.N. (Kazan'); YUDIN, Ya.B. (Novokuznetsk)

Short reports. Kaz.med.zhur. no.4:81-91 J1-Ag '62. (MIRA 15:8)
(MEDICINE--ABSTRACTS)

BUSYGIN, V.

BUSYGIN, V.

New detachment of master builders. Sel'. stroi. 12 no.10:21 0 '57.
(MLRA 10:11)

1. Direktor Kirovskoy shkoly stroitel'nykh masterov (desyatnikov).
(Building trades--Study and teaching)

BUSYGIN, V.A.; SIMAKOV, Yu.V.; BAZILEVICH, S.V.; MAYZEL', G.M.

Automatic control of sintering charge moisture. Stal' 22
no.10:880-882 0'62. (MIRA 15:10)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat.
(Sintering) (Automatic control)

ACCESSION NR: AT4042700

S/0000/63/000/000/0339/0343

AUTHOR: Lebedinskiy, A. V.; Arlashchenko, N. I.; Busy*gin, V. Ye.; Vartbaronov, R. A.; Veselov, A. S.; Volokhova, N. A.; Grigor'yev, Yu. G.; Yemel'yanov, M. D.; Kalyayeva, T. V.; Kry*lov, Yu. V.; Polyakov, B. I.; Farber, Yu. V.

TITLE: Effects of Coriolis accelerations on the human organism

SOURCE: Konferentsiya po aviatsionnoy i kosmicheakoy meditsine, 1963. Aviatsionnaya i kosmicheskaya meditsina (Aviation and space medicine); materialy konferentsii. Moscow, 1963, 339-343

TOPIC TAGS: vestibular analyzer, cosmonaut selection, cosmonaut training, semi-circular canal, acceleration, rotation, nystagmus, optical analyzer, Coriolis acceleration

ABSTRACT: Studies of the effect of prolonged Coriolis accelerations on the human organism must be made as a preliminary step toward the creation of artificial gravity in spaceships. Studies were performed in a slowly rotating MBK-1 chamber (a cylindrically shaped room 2.1 m in diameter and 2.3 m high, equipped with two armchairs). In the first series of experiments, 13 healthy persons were subjected

Card 1/2

ACCESSION NR: AT4042700

to prolonged rotation of 1 to 5 hours at an angular velocity of 5.3°/sec. In the second series of experiments, 4 subjects were rotated for 24 hours at angular velocities of 5.3, 10.6, and 21.2°/sec. Coriolis accelerations were created periodically by tilting the body and head in a plane perpendicular to the plane of rotation of the chamber at the rate of 1 movement/sec. Prolonged stay of subjects with normal vestibular sensitivity under conditions of rotation at 5.3, 10.6, and 21.2°/sec resulted in functional changes in the condition of the central nervous system and the cardiovascular system, and in disruption of the body temperature control and the balancing function. The degree of vegetative disorders was found to be directly proportional to the speed of rotation and the degree of vestibular sensitivity of the subjects. During cumulative action of Coriolis accelerations, the majority of the subjects developed an adaptation which was noted from 1 to 5 hours after beginning of the rotation. On the basis of the results obtained, the method of prolonged slow rotation is recommended for training purposes.

ASSOCIATION: none

SUBMITTED: 27Sep63

ENCL: 00

SUB CODE: 13

NO REF SOV: 000

OTHER: 000

Card 2/2

BUSYGIN, V. Ye.

USSR/Medicine - Experimental Apparatus

FD-2817

Card 1/1 17, 19/19

Author : Busygin, V. Ye.

Title : Elastic powdered-carbon rheostatic transducer for the registration of respiration and contraction of muscles

Periodical : Byul. eksp. biol. i med. 6, 71-72, June 1955

Abstract : A new apparatus which registers respiration and muscle contractions is described in the article. It consists of an elastic rubber tubing (1) filled with microphone carbon powder (3) and closed at both ends by brass contacts (2). Loops (4) are soldered to the cylindrical parts of the contacts and cables (5). The schematic sketch shows the transducer, the 450-460 ohm potentiometer, 4.5 v battery, a vibrator and milliammeter. No references. Illustrations and graphs.

Institution : No Institute Affiliation -- Moscow

Submitted : 18 Sep 1954

USSR/Human and Animal Physiology. Blood Circulation. Blood
Vessels.

T-5

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55623.

Author: ; Busygin, V. Ye., Nefedov, Yu. G.

Inst :

Title : Methods Determining the Expansion Speed of Pulse
Waves in Man and in Animals.

Orig Pub: Byul. eksperim. biol. i meditsiny, 1957, No 1, prilo-
zheniye, 48-50.

Abstract: Powdered-carbon laryngophones were used as receivers
for pulse waves, and thus their being registered by
an oscillograph without amplifiers was assured.

Card : 1/1

AUTHORS: Busygin, V. Ye., and Melamed, L.R. SOV/19-58-6-362/685

TITLE: A Photoelectric Device for Determining the Thickness of
Sheet Material (Fotoelektricheskoye ustroystvo dlya opredeleniya tolshchiny listovogo materiala)

PERIODICAL: Byulleten' izobreteniy, 1958, Nr 6, p 81 (USSR)

ABSTRACT: Class 42b, 12⁰³. Nr 113949 (551169 of 13 Sep 1956). Submitted to the Committee for Inventions and Discoveries at the Ministers Council of USSR. A photoelectric device for measuring the thickness of sheet material in the process of production; consisting of one light source with a slot diaphragm and a photoelement at each side of the sheet material. The design eliminates the influence of cross vibration of the sheet material on the accuracy of measurements.

Card 1/1

Busygin, V. Ye.

17(8)

SOV/19-58-7-163/392

AUTHORS: Busygin, V.Ye., and Grigor'yev, Yu.G.

TITLE: A Method of Taking Blood from Test Animals and an Instrument for Realization of this Method (Sposob vzyatiya krovi u podopytnykh zhivotnykh i pribor dlya osushchestvleniya sposoba)

PERIODICAL: Byulleten' izobreteniy, 1958, Nr 7, p 39 (USSR)

ABSTRACT: Class 30a, 4⁰⁸. Nr 114386 (564246 of 9 January 1957). A method of remote blood taking, without direct contact with the animal--before, during or after the toxic effect on the animal, straight from a cross cut and separated blood vessel, without disturbing the blood circulation. The instrument for blood taking by the specified method is an electrically controlled valve-less piston pump.

Card 1/1

BUSYGIN, V.Ya.; GRIGOR'YEV, Yu.G.

Method for studying peripheral blood composition during irradiation.
Med.rad. 3 no.1:22-26 Ja-F '58. (MIRA 11:4)

(RADIATIONS, effects,
on blood, technic of investigation of peripheral changes
(Rus)

(BLOOD, effect of radiations,
technic of investigation of peripheral changes (Rus)

BUSYGIN, V.Ye. (Moskva)

A method for the photoregistration of arterial pressure. *Biul. eksp. biol. i med.* 47 no.8:114-116 Ag '59. (MIRA 12:11)

1. Predstavlena deystvitel'nyy chlenom AMN V.V. Parinyu.
(MANOMETRY equipment & supply)
(BLOOD PRESSURE)

BUSYGIN, V.Ye.; GRIGOR'YEV, Yu.G.

Method for the objective registration of response reactions of the body following adequate stimulation of the vestibular analyzer (in an experiment. Biul.eksp.biol.i med. 54 no.7:102-104 J1 '62. (MIRA 15:11)

1. Nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR A.V. Lebedinskiy. Pradstavlena deystvitel'nyy chlenom AMN SSSR A.V. Lebedinskiy.

(LABYRINTH (EAP)) (PHYSIOLOGICAL APPARATUS)

BIBIKOVA, A.F.; BUSYGIN, V.Ye.; GRIGOR'YEV, Yu.G.; KALYAYEVA, T.V.;
LYUBIMOVA-GERASIMOVA, R.M.; TSYPIN, A.B.

Reaction of the organism to massive β -irradiation. Pat.
fiziol. i eksp. terap. 6 no.4:57-62 J1-Ag '62. (MIRA 17:8)

ARLASHCHENKO, N.I.; BOKHOV, B.B.; BUSYGIN, V.Ye.; VOLOKHOVA, N.A.;
GRIGOR'YEV, Yu.G.; POLYAKOV, B.I.; FARBER, Yu.V.

Body reactions during the prolonged effect of coriolis accelerations. Biul. eksp. biol. i med. 56 no.8:28-33 Ag '63.

(MIRA 17:7)

1. Nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR
prof. A.V. Lebedinskiy. Predstavleno deystvitel'nym chlenom
AMN SSSR A.V. Lebedinskim.

11/11/84 10:00 AM

TITLE: Electrocardiograph pulse-recording attachment

Source: "Soviet Journal of Experimental'nov Biologii i Meditsiny"
no. 7, 1964, 118-120

TOPIC TAGS: electrocardiograph pulse recording attachment, peripheral
pickup, electro-pneumatic recording

MANOME165

The electrocardiograph attachment has been
described in detail in the literature. It is
a portable device which can be used for
recording ECG signals from a patient
in a hospital or in the field. The
device is simple to use and does not
require special training. A lead
wire is attached to the patient's chest
and the other end is connected to the
recording unit. The lead wire is used to

Card 1/3

ACCESSION NR: AF4042358

forearm, hip, leg, and foot, and the ring cuffs are used to record pulse from the fingers and toes. Muscle contractions can also be recorded with this attachment.

Card 2/3

BUSYGIN, YE.P.

BUSYGIN, E.P.

Settlements and dwellings of the Russian rural population in the Tatar
A.S.S.R. Sov.etn. no.2:53-75 '53. (MLRA 6:6)
(Tatar A.S.S.R.--Farm Buildings)

BUSYGIN, Ye.P.

Ethnological investigation of the material culture of the Russian population of the middle Volga Valley. Sov.stn. no.3:100-106 '54.
(MLRA 7:11)

(Volga Valley--Dwellings) (Dwellings--Volga Valley)

BUSYGIN, Yevgeniy Prokof'yevich, dotsent; BATYR, V., redaktor; GAVRILOV, A.
tekhnicheskiy redaktor

[Soviet hydroelectric power stations in the sixth five-year plan]
Gidroelektrostantsii SSSR v shestoi piatiletke. Kazan', M-vo
kul'tury Tatarskoi SSR, 1956. 20 p. [Microfilm] (MLRA 10:7)
(Hydroelectric power stations)

BUSYGIN, Ye. P.

KRINARI, A.I.; BUSYGIN, Ye.P.; SOLGANIK, G.Ya., redaktor; NEDEL'KO, G.N.,
tekhnicheskly redaktor

[The Greater Volga in Tatarstan] Bol'shaya Volga v Tatarii.
Kazan', Tatknigoizdat, 1957. 35 p. (MLRA 10:7)
(Volga River)

BUSYGIN, Ye.P.

Ethnographic study of the material culture of the Russian population
of the middle Volga Valley. Uch. zap. Kaz. un. 117 no.9:353-357 '57.
(MIRA 13:1)

1. Kazanskiy gosudarstvennyy universitet im. V.I. Ul'yanova-Lenina.
Kafedra ekonomicheskoy geografii.
(Volga Valley--Ethnology)

ARKHIPOV, Vadim Matveyevich; BUSYGIN, Yevgeniy Prokof'yevich;
VOROB'YEV, N.I., prof., red.; KUSURGASHEV, I.M., red.

[Antarctica and its exploration by Soviet scientists] Antark-
tida i ee issledovanie sovetскими uchenymi. Kazan' Izd-vo Ka-
zanskogo univ., 1959. 49 p. (MIRA 15:3)
(Antarctic regions--Soviet exploration)

BUSYGIN, Ye.P.; STUPICHIN, A.V.

Nikolai Iosifovich Vorob'ev, 1895- ; on his 70th birthday. Izv. Vses.
geog. ob-va 97 no.4:381-382 Ji-Ag '65.

(MIRA 18:8)

BUSYGINA, A. A.

USSR/Chemistry - Analytical, Meeting

Jul/Aug 52

"Conference on Analytical Chemistry in the City of Gor'kiy," V.I. Kuznetsov

Zhur Anal Khim, Vol 7, No 4, pp 253, 254

Regional conference held 4 - 6 June 52, called by Gor'kiy State U. Forty reports were heard, a number of them devoted to the theory of the action of org reagents, and to their utilization in analysis. V.I. Kuznetsov and L.M. Kul'berg reported on the effect of the peculiarities of the molecular structure of an org reagent on that reagent's reaction capability. B.A. Platonov pointed out that the completeness of the pptn of W by org reagents is detd by the nature of the precipitator and the state of the W in soln. V.M. Peshkova spoke on the ease with which dioxime complexes of Ni could be extracted during the colorimetric detection of Ni in the presence of Co and other elements. A.K. Babko reported on utilizing silicomolybdic acid and phosphomolybdic acid in analysis. V.B. Avilov was heard on the physicochem bases of the iodometric detection of As, Sb, Fe, Sn, Cr, and V, and on the theoretical bases of certain oxidizing-reducing reactions. A.M. Vasil'ev, V.F. Torpova and A.A. Busygina reported on the possibility of separating Cu, Cd, and Zn, by ionic exchange on Wofatit R with solns containing thiosulfate and acetates. Reports were also presented on sanitation-hygienic analysis.

261T27

Busygina, A. A.

Use of ion exchange for separation of copper, cadmium, and zinc from thiosulfate solutions. A. M. Vasil'ev, V. P. Toronov, and A. A. Busygina. *Uchenye Zapiski Kazan. Univ.* 113, No. 8, 91-102 (1963); *Referat. Zhur., Khim.* 1954, No. 44488.—The sepn. was effected on the basis of the stability of the thiosulfates of these elements. The concn. of solns. was detd. polarographically. Preliminary expts. carried out under static conditions showed an appreciable lowering of sorption of these elements by the cationite Offatit R (Na form) with an increase of thiosulfate ion in the soln. This was most noticeable in the case of Cu, followed by Cd, and finally by Zn. Under dynamic conditions Cu and Zn were sepd. by washing the adsorption column with 0.1M Na₂S₂O₃ at pH 7.8, and Cu and Cd by passing 0.015M Na₂S₂O₃. M. Hosh

A. A.

②
Chair Analytical Chemistry

SILJCH, M.I.; SIDOROV, I.P.; MARTYNOVA, L.L.; BUKAROV, A.R.;
YULISOV, A.A.; KISIL', I.M.; Primali uchastiye: KUMNOVA, G.N.;
YEROFEYEVA, A.D.; MALYGINA, N.M.; KHOKHLOV, A.I.; ZAYTSEVA, A.I.;
YELISOVA, T.V.; BUSYGINA, A.I.

Improved technological system with a suspended catalyst
for the production of alcohol by oxo synthesis method. Khim.i
tekh.topl.i masel 6 no.8:19-24 Ag '61. (MIRA 14:8)

1. Gosudarstvennyy institut azotnoy promyshlennosti; LKhK;
Opytno-konstruktorskoye byuro po avtomatike.
(Alcohols) (Oxo process)

BUSYGINA, E.G.

V.P.Filatov's role in the development of Soviet medicine. Sov.
med. 28 no.9:151-154 S '65. (MIRA 18:9)

1. Kafedra istorii meditsiny (zav. - dotsent M.K.Kuz'min) I
Moskovskogo meditsinskogo instituta imeni Sechenova.

BUSYGINA, M. V.

"Experiments in the Use of Negative Aeroionization in the Treatment of Recurrent Aphthous Stomatitis." Cand Med Sci, Moscow Medical Stomatological Inst, Moscow, 1954. (MR, No 97, 3 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

BUSYGINA, M.V., kandidat meditsinskikh nauk; MINKH, A.A., professor

Effects of negatively ionized air on the cold perception of the skin.
Gig.i san. 21 no.12:5-11 D '56. (MIRA 10:1)

1. Iz kafedry gigiyeny Moskovskogo meditsinskogo stomatologicheskogo instituta.

(AIR

negative ionization, eff. on cold preception of skin)

(SKIN, physiol.

cold perception, eff. of negative ionization)

(IONIZATION

negative of air, eff. on cold perception of skin)

BUSYGINA, M.V., kandidat meditsinskikh nauk

Treatment of relapsing aphthous stomatitis with negatively ionized
air. Stomatologiya 35 no.3:60 My-Je '56. (MLRA 9:9)

1. Iz kafedry gigiyeny (zav. - prof. A.A.Minkh) Moskovskogo medi-
tsinskogo stomatologicheskogo instituta (dir. - dotsent G.N.Beletskiy)
(STOMATITIS)

Busygina M.V.
BUSYGINA, M.V.; LANYUK, S.V.; MINKH, A.A.

Employing the ionization of air in treating wounds and ulcers resistant to healing in the maxillofacial area. Stomatologiya 36 no.5:67-70 S-0 '57. (MIRA 11:1)

1. Iz kafedry khirurgicheskoy stomatologii (zav. - prof. A.I. Yevdokimov) i kafedry gigiyeny (zav. - prof. A.A.Minkh) Moskovskogo meditsinskogo stomatologicheskogo instituta (dir. - dotsent G.N.Beletskiy)
(FACE--WOUNDS AND INJURIES) (AIR, IONIZED)

BUSYGINA, M.V., dotsent; KHERSONSKAYA, F.I., assistant

← Certain atypical features in the clinical course of acute aphthous
stomatitis in Central Asia. Stomatologiya 40 no.3: 11-13 My-Je '61.
(MIRA 14:12)

1. Iz kafedry terapevticheskoy stomatologii Tashkentskogo gosudarstvennogo
meditsinskogo instituta (dir. - dotsent A.G.Gulamov).
(SOVIET CENTRAL ASIA--STOMATITIS)
(WEATHER--MENTAL AND PHYSIOLOGICAL EFFECTS)

YEPISHEV, V.A.; BUSYGINA, M.V.

First Republic Scientific Conference of Stomatologists and
Dentists of the Uzbek S.S.R. Stomatologiya 43 no.18107-109
Ja-F'64 (MIRA 17&4)

BUSYGINA, N. A. Cand Med Sci -- (diss) "The role of the cortex and subcortex
~~in~~ in the regulation of blood pressure and unconditioned vascular reflexes."

Khar'kov, 1957. 14 pp (Khar'kov Med Inst). (KL, 5-58, 103)

BUSYGINA, N.A. [Busyhina, N.A.]

Unconditioned reflexes in dogs before and after acute transitory
ischemia of the central nervous system. Fiziol. zhur. [ukr.] 8 no.
5:593-599 S-0 '62. (MIRA 17:11)

1. Department of Normal Physiology of Kharkov Medical Institute.

BUSYGINA, N.G.

Dynamics of some immunological indices in animals with experimental streptococcus infection in combined cortisone and penicillin therapy. Zhur. mikrobiol., epid. i immun. 42 no.8:31-36 Ag '65. (MIRA 18:9)

1. L'vovskiy nauchno-issledovatel'skiy institut okhrany materinstva i detstva.

BUSYGINA N. G

.USSR / Microbiology. Microbes Pathogenic for Man and Animals. General Problems. F

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24051

Author : Busygina, N. G.

Inst : L'vov Scientific Research Institute for Protection of Mother and Child

Title : Microflora of Pus and Breast Milk in Post-natal Mastitis

Orig Pub : Sb. nauchn. rabot L'vovsk. n.-i. okhrany materinstva i detstva, 1954, vyp 1, 86-89

Abstract : From the pus in mastites, Staphylococcus aureus is most frequently (in 88%) isolated; which, in 80%, is determined in a pure culture. 96.4% of isolated St. aureus coagulated the plasma, 79.3% fermented mannite, and 57.4% induced hemolysis of rabbit erythrocytes. It

Card 1/2

USSR / Microbiology. Microbes Pathogenic for Man and F
Animals. General Problems.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24051

was established that in mastites the micro-
flora in pus and milk is identical. From
the breast milk and the skin of the nipples
of healthy puerpera, staphylococci were also
isolated, part of which possessed pathogenic
properties. The author recommends the treat-
ment of nipples with a mixture of alcohol
with iodine for mastitis prophylaxis. --
V. V. Vlodayets

Card 2/2

USSR / Microbiology. General Microbiology. Physiology and Biochemistry. F-1

Abs Jour: Ref Zhur-Biol., No 16, 1958, 71941.

Author : Busygina, N. G.
Inst : Lvov Scientific-Research Institute For the Protection of Motherhood and Childhood.

Title : Influence of Nicotinic Acid on the Growth of Dysentery-Producing Agents (Sonne and Flexner Bacteria).

Orig Pub: Nauchn. tr. L'vovsk. m.-i. on-t okhrany matorinstva i detstva, 1957, 2, 120-125.

Abstract: Nicotinic acid exerts no marked influence on the growth of Sonne and Flexner dysentery bacteria in a full strength nutrient medium and sharply strengthens their growth in a synthetic medium.

Card 1/1

BUSYGINA, P. K.

USSR/Engineering - Refractories, Materials Dec 51

"Chamotte-Chromite Refractory Products," S. I. Mar-
shak, P. K. Busygina, Engineer, Metallurgical Plant
imeni Dzerghinskiy

"Ogneupory" No 12, pp 553, 554

Experimentally establishes possibility of using
fine chromite below 0.5 mm in size in production of
chamotte refractory products (40% chamotte, 50%
clay, 10% chromite dust). Quality of siphon and
ladle bricks, and converter tuyeres is improved by
addn of chromite to refractory material.

198T22

STARITSKIY, V.G.; BUSYREV, A.I.

Methods for studying cavitation erosion using hydraulic turbine
models. Trudy LPI no.246:69-72 '65. (MIRA 18:6)

BUSYREV, V.M., gornyy inzh.

Lowering the amount of labor in mine breaking in the Kirov Mine.
Gor.zhur. no.4:30-32 Ap '61. (MIRA 14:4)

1. Gorno-metallurgicheskiy institut Kol'skogo filiala AN SSSR,
Kirovsk Murmanskoy obl.
(Kirovsk (Murmansk Province)--Blasting)

ZURKOV, P.E., prof.; BUSYREV, V.M., inzh.

Study of the efficiency of grizzly and scraper haulage of ores.
Izv.vys.ucheb.zav.:gor.zhur. 7 no. 1:19-24 '64. (MIRA 17:5)

1. Magnitogorskiy gornometallurgicheskiy institut im. G.M. Nosova (for Zurkov). 2. Kol'skiy filial imeni S.M.Kirova AN SSSR (for Busyrev). Rekomendovana kafedroy podzemnoy razrabotki gornometallurgicheskogo instituta im. G.M.Nosova.

BUSYREV, Vladislav Mikhaylovich, kand. tekhn. nauk; GURICHEN,
Vladimir Vasil'yevich; ZURKOV, P.E., doktor tekhn. nauk,
prof., otv. red.

[Efficiency of mining apatite and nepheline ores by the
induced level caving system] Effektivnost' razrabotki
apatito-nefelinovykh rud sistemoi etazhnogo prinuditel'-
nogo obrusheniia. Moskva, Izd-vo "Nauka," 1964. 97 p.
(MIRA 17:8)

GUSPINA, V.V.; ABRAMOV, V.P.; BELYKH, V.I.; VORONOV, N.I.

Improving the systems of underground mining of apatite deposits.
Ser. Izv. no. 10-4-19 0 166. (1961)

USSR / Farm Animals. General Problems.

Q

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 21204

Author : Busyrin, Ya.

Inst : Not given

Title : The Pastures of New Zealand

Orig Pub : Kolkhoznoye proiz-vo, 1957, No 7, 43-44

Abstract : A short informative review is presented pertaining to the animal husbandry of New Zealand.

Card 1/1

11

L 01787-67 T JK

ACC NR: AP6035137

(A)

SOURCE CODE: PO/0081/65/019/002/0154/0156

BUSZILA, V. T.; PETRESCU, E.; and WENTULINI, E.; Clinic of Infectious Diseases of the Medical Institute in Timisoara (Rumania).

25
B

"Electroencephalographic Changes during the Course of Pertussis."

Warsaw, Przegląd Epidemiologiczny, Vol 19, No 2, 1965; pp 154-156.

TOPIC TAGS: respiratory system disease, EEG, pediatrics

Abstract: Electroencephalographic study in 35 children with pertussis repeated in 25 of these during the period of 1-5 years after the disease. The number of normal, asymmetric, activated, and abnormal patterns in each of three groups (according to severity of pertussis) is tabulated; also correlated with corticotherapy: 2 Tables. Paper presented at the 3rd Scientific Assembly of Polish Epidemiologists and Infectologists, Krakow, 5-6 Oct 64.

Orig. art. has: 2 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 1/1 *File*

BUSZKA, H.

Automatic shielded-arc welding of thin plates.

P. 157 (PRZEGLAD SPAWALNICTWA) (Warszawa, Poland) Vol. 9, no. 6, June 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7. No. 5. 1958

BUSZKA, H.

Automatic welding of light plates by the shielded arc method. p.78

PRZEGLAD SPAWALNICTWA. (Stowarzyszenie Inzynierow i Technikow Mechanikow Polskich i Instytut Spawalnictwa) Warszawa, Poland. Vol.11, no.3, Mar. 1959

Monthly List of East European Accessions Index, (EEAI) LC, Vol.8, no.6, June 1959
Uncl.

BUSZKA, Horst, inż.; DZIUBA, Stanislaw, mgr inż.

Gantry installation of automatic covered arc welding of frames
of combustion locomotives. Przegl spaw 16 no.9:224, 3-4 of cover
S '64.

1. Department of Welding Mechanization, Welding Institute, Gliwice.

DZIUBA, Stanislaw, mgr inz.; BUSZKA, Horst, inz.

Universal OS 1a type welding positioner. Przegł spaw 16 no.10:
239-241 O. '64.

1. Department of Mechanized Welding, Welding Institute, Gliwice.

BUSZKA, Horst Z., inz.

Equipment for the mechanization of welding. Przegl spaw 16
no.6:137-142 Je '64.

1. Welding Institute, Gliwice.

L 29757-66

ACC NR: AP6020898

(A)

SOURCE CODE: PO/0071/65/000/008/0464/0465

AUTHOR: Chwalibog, Jan (Doctor; Gorzow Wielkopolski); Buszkiewicz, Barbara //

ORG: WZHW/headed by Dr. Jan Chwalibog/, Gorzow Wielkopolski B

TITLE: Poultry diseases diagnosed in veterinary institutes in Zielonogor province 1962 and 1963

SOURCE: Medycyna weterynaryjna, no. 8, 1965, 464-465

TOPIC TAGS: animal disease, diagnostic medicine

ABSTRACT: Very detailed breakdown of 813 fatal cases of diseases in fowl, including 337 infectious ones, 154 parasitic (coccidiosis, trichomoniasis, giardiasis), metabolic and other diseases; data are also broken down by seven species of fowl with discussion. Orig. art. has: 6 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 1/1 CC

BUSZKA, E.

"Some problems of the theory of motion according to Soviet publications, (to be cond.) p. 323 (DROGOWNICTWO, Vol. 7, no. 12, Dec. 1952, Warszawa, Poland)

SO: Monthly List of East European accessions, Vol. 2, #8, Library of Congress
August, 1953, Uncl.

BRODM, E.

"Some Problems of the Theory of Automobile Motion According to Soviet Publications."
(To be conti.) p. 89 (BRODOMIETNO, Vol. 8, No. 4, Apr. 1951), Warszawa, Poland

SO: Monthly List of East European Accessions, Library of Congress, Vol. 2, No.10,
October 1953. Unclassified.

BUSZAM, E.

(DROGOWNICTWO, Vol. 8, No 7, July 1953, Warsaw, Poland)

"Some problems of highway traffic according to Soviet publications."

(To be contd.) p. 180.

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L.C., Vol. 3, No. 4, APRIL 1954

BUSZMA, E.

(DEOGOWNICTWO, Vol. 8, No. 8, Aug. 1953, Warsaw, Poland)

"Some problems of highway traffic according to Soviet publications." (Conclusion)
p. 205.

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L.C., Vol. 3, No. 4, APRIL 1954

BUSENA, E.

More about sand drainers. p. 143.
DROGOMIENICHO, Warszawa, Vol. 10, no. 6, June 1955.

SO: Monthly List of East European Accessions, (SEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

BUSZKA, E., DOMARADZKI, J., ROLLA, S.

Budowa i utrzymanie dróg (Construction and maintenance of roads),
by E. Buszka, J. Domaradzki, S. Rolla. Reported in New Books (Nowe
Książki), No. 6, March 15, 1956

BUSZMA, E

"Trends in the development of road construction and the technology of road traffic in Western Europe."

p. 227 (Drogownictwo,, Vol. 13, no. 10, Oct. 1958, Warsaw, Poland)

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, Nol , Jan 59

BUSZYNSKA, B.

Reports to be presented at the 2nd Intl Congress on Catalysis, Paris, France, 4-9 Jul '60

Poland

- BARANOWSKI, B., SNIADKOWSKI, M., and SZKLAJKA-SZCZALOWSKA, Z. - "Properties of nickel layers electrolytically hydrogenated in the presence of poisons" (Section II)
- KYLIANSKI, A., BERNI, J., BALEK, J., and HLODZINSKI, J. - "Electronic processes accompanying the catalytic dehydrogenation of alcohols on semi-conducting oxide catalysts" (Section II)
- HEMELNICKI, B. - "On the process of catalytic reduction of sulfur dioxide with acids in iron sulfate solution" (Section III)
- BAJBY, A. - "On trace catalysis" (Section II)
- LITWA, B., MENCZAKOWICZ, E., and BUSZYNSKA, B. - "The gaseous phase transformation of a mixture of 3-picoline and 4-picoline in the presence of ammonia and air in a mixture of corresponding nitriles" (Section III)
- MALDONADO, B., and KOSIUSKI, Z. - "Hydrogen transfer in gaseous phase between alcohols and compounds containing carbonyl groups" (Section I)
- OTYMOCHA, B., MENCZAKOWICZ, E., and CHODAKOWSKI, B. - "Catalytic activity of substituted alcohols and catalytic activity of pyridine and alcohols during isopropanol dehydrogenation" (Section III)
- SOJKA, J. - "Study of selectivity and activity of copper catalysts in dehydrogenation reaction" (Section III)
- SWIARSKI, A., and SIEDLECKI, J. - "Influence of dimensions of pores on the catalytic power of active carbon in the oxidation of sulfur hydrogen by oxygen" (Section II)

BUSZYNSKA, I.

BUSZYNSKA, Irena, MANICKI, Jerzy

Intravenous utilization of hydrolysate of cattle whole blood in liver diseases; amount of amino nitrogen in urine as a liver function test. Polski przegl.chir. 27 no.9:861-863 Sept. '55.

1. Z II Kliniki Chirurgicznej A M w Warszawie. Kierownik Kliniki: prof. dr J.Mossakowski.

(LIVER, diseases

ther., intravenous admin. of hydrolysate of whole blood of cattle, eff. on amount of amino nitrogen in urine.)

(SERO THERAPY, in various diseases

hydrolysate of whole blood of cattle, intravenous admin., eff. on amount of amino nitrogen in urine)

(URINE

amino nitrogen, eff. of intravenous hydrolysate of whole blood of cattle in ther. of liver dis.)

(NITROGEN, in urine

amino nitrogen, eff. of intravenous hydrolysate of whole blood of cattle in ther. of liver dis.)

KAGAN, Ya.I., kand. fiz.-matem.nauk; IECNET, V.I., inzh.; BHT, A.A., inzh.;
SHKIL', V.M., inzh.

Ultrasonic welding of wire connections with varnish or enamel
insulation. Svar. proizv. no.8:25-27 Ag '65. (ISSA 18:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tekhnologii
elektromashin i apparatostroyeniya.

L 2446-66 EWT(d)/EPA(s)-2/EWT(m)/EMP(v)/EMP(j)/T/EMP(t)/EMP(k)/EMP(h)/EMP(b)
ACCESSION NR: AP5020162 EMP(l)/EMA(c) JL/HM/RM UR/0135/65/000/008/0025/0027
621.791:534-8:621.315.3

AUTHORS: Kagan, Ya. I. (Candidate of physico-mathematical sciences); Neonet, V. P. (Engineer); But, A. A. (Engineer); Shkil', V. M. (Engineer)

TITLE: Ultrasonic welding of lacquer- or enamel-insulated wire connections

SOURCE: Svarochnoye proizvodstvo, no. 8, 1965, 25-27

TOPIC TAGS: ultrasonic welding, wire connection, wire welding, insulated wire/ PEV wire insulation, PEL wire insulation, PSDK wire insulation, BPVL wire insulation, PGV wire insulation, UZSM 1 ultrasonic welder

ABSTRACT: To determine the feasibility of ultrasonic welding of wire connections without prior removal of the insulation, a range of copper and aluminum wire sizes (insulation types PEV, PSDK, BPVL, PETV-TL, PGV, and PEL) were experimentally welded on ultrasonic welder UZSM-1 into wire-to-wire and wire-to-copper plate connections. The contact force, welding time, and ultrasonic vibration amplitude for best connection strength were determined for each case, and a table of best parameters for 22 different connections is presented. It was found that the wires had to be held properly during the welding process (see Fig. 1 on the Enclosure) to give satisfactory connections. It was also found that single and multi-strand copper wires

L 2446-66

ACCESSION NR: AP5020162

(with PEL or PEV insulation) and aluminum wires (without insulation) could be welded without difficulty into wire-to-wire and wire-to-copper plate connections (for all wire diameters). Insulated aluminum single-strand wires above 2 mm in diameter could also be welded, but smaller diameters required special care and gave unsatisfactory results. The static strength in tension-shear of the connections was found to be 75-90% of the wire strength, but only 30-35% of this force was required to pull the weld apart (perpendicular to axis). The resistance of the connections was more than 85% of the wire resistance. Orig. art. has: 2 tables and 2 figures.

ASSOCIATION: VNIITELEKTROMASH

SUBMITTED: 00

ENCL: 01

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

Card 2/3

I 2446-66

ACCESSION NR: AP5020162

ENCLOSURE: 01

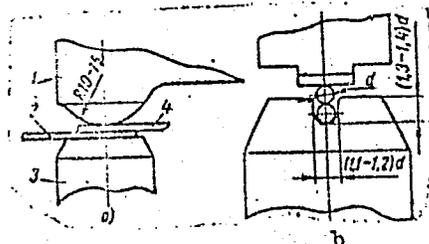


Fig. 1. Welding head geometry for wire-to-plate (a) and wire-to-wire (b) welds: 1- instrument, 2- plate, 3- reflector, 4- wire

BVK
Card 3/3

I. 02391-67 EMP(k)/EMT(m)/EMT(e)/EMP(v)/EMP(t)/ETI MA/MI/JD/EM
ACC NR: AR6033109 SOURCE CODE: UR/0137/66/000/007/E034/E034

AUTHOR: Kagan, Ya. I. ; Neonet, V. P. ; But, A. A. ; Shkil', V. M. 35

TITLE: Ultrasonic welding of wire enamel insulation

SOURCE: Ref. zh. Metallurgiya, Abs. 7E242

REF SOURCE: Tr. Vses. n. -i. in-ta tekhnol. elektromashino- i apparatostr.,
vyp. 3, 1965, 30-46

TOPIC TAGS: ultrasonic welding, electric wire, insulated wire, enameled wire,
wire insulation, wire welding

ABSTRACT: An analysis was made of the process of ultrasonic welding of electric wire without removing the layer of enamel or varnish insulation or preliminary preparation of surface. The possibility has been established for welding single-core and multicore PEL and PEV insulated copper electric wires to each other and to a Cu plate for practically all diameters used in the electrical industry, as well as aluminum single-core uninsulated electric wires to each other, to insulated single-core Cu wires, and multicore uninsulated Al wires to Cu plates. Welding of

Card 1/2

UDC: 621.791.16

L 09391-67

ACC NR: AR6033109

single-core Al electric wires with PEV or PEL insulation $>$ 2 mm diameter can be conducted with the maximum amplitudes. V. Fomenko. [Translation of abstract]

SUB CODE: 13

Card

2/2

BUT, A.I., inzh.; SUKHOVA, L.A., kand.tekhn.nauk; LEVCHENKO, G.I., inzh.
[deceased]

Method of electric dehydration of roofing paper. Stroi. mat.
8 no.5:20-21 My '62. (MIRA 15:7)
(Roofing)

But, A.I.

AUTHOR: But, A.I. (Deceased).

136-6-23/26

TITLE: Planning and Economics of Non-ferrous Metallurgical Enterprises" (Planirovaniye i ekonomika predpriyatiy tsvetnoy metallurgii), Metallurgizdat, 1956, 270 pages. Book review by A.Kh. Benuni and V.I. Ganshtak.

PERIODICAL: Tsvetnyye Metally, 1957, No. 6 pp 86 - 88 (USSR)

ABSTRACT: According to the reviewers, the author of this book has succeeded in his purpose of assembling definite methods and a system of planning for the main branches of non-ferrous metallurgy, including mining. The review outlines the contents of the book and is, on the whole, favourable. Some criticisms are made of the unusual order in which the subject matter is arranged and comparatively minor omissions.

AVAILABLE: Library of Congress
Card 1/1

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307720014-7

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307720014-7"

BUT, A-1.

AUTHOR: None given.

136-4-20/23

TITLE: New technical literature (Novaya tekhnicheskaya literatura).

PERIODICAL: "Tsvetnye Metally"(Non-ferrous Metals) 1957, No.4,
pp. 84 - 87 (U.S.S.R.)

ABSTRACT: This is an annotated list, compiled from material supplied by the Central Scientific-technical Library of the Ministry of Non-ferrous Metallurgy of the U.S.S.R. The following Russian articles and books are included:

Beneficiation:

K.N. Verigo, "Crushing and grinding equipment in capitalist countries" (Drobilno-razmolnoe oborudovanie v kapitalisticheskikh stranakh), Nauchno-tekhn. O-vo Tsvetnoy Metallurgii, Moscow, 1956, 159 pages. (Book)

N.N. Shumilovskiy and L.V. Mel'tser "Engineering methods for the calculation of consumption meters working on the "marked molecules" method", Priborostroenie, 1956, pp.4-8. No.11(Article)

Metallurgy:

A.F. Alabyshv and A.G. Morachevskiy "Thermo-dynamic properties of the system sodium-cadmium", Dokl.Ak.Nauk SSSR, 1956, pp. 369-71, Vol. 11, No.2. (Article)

Card 1/4

"Geology, mining, metallurgy, Collected Works, No.13" (Geologiya, gornoe delo, metallurgiya. Sbornik Nauchnykh Trudov No.13) Metallurgizdat, Moscow, 1956, 416 pages. (Book)

New technical literature (Cont.)

136-4-20/23

B.V. Deryagin and S.S. Dukhin "Settling of aerosol particles on a phase-change surface. Diffusional method of dust catching. Importance in medicine." Dokl. Ak. Nauk SSSR, 1956, pp.613-616.

Vol. 111, No.3. (Article)

"Reports of the Academy of Sciences of the Kazakhstan SSSR, mining, metallurgy, building and building materials series." (Izvestiya Akademii Nauk Kazakhskoy SSR, seriya gornogo dela, metallurgii, stroitelstva i stroymaterialov (po razdelu metallurgii) No.9, Alma Ata, 1956, 111 pages. (Book)

M.A. Iur'e "Refractories in non-ferrous metallurgy" (Ogneupory v tsvetnoy metallurgii), Metallurgizdat, Moscow, 1956, 151 pages. (Book)

A.F. Ogarkov, "Thermal conductivity of Ural refractory materials", V.Kh. Trudy Uralskogo Politekhn., Sverdlovsk, 1956, pp. 5 - 22. (Article)

N.F. Razina, M.T. Kozlovskiy and V.V. Stender, "Disruption of lead anodes during electrolysis of sulphuric acid solutions", Dokl. Ak. Nauk SSSR, 1956, pp. 404-406, Vol.111, No.2 (Article)

I.G. Ryss, "Chemistry of fluorine and its inorganic compounds" (Khimiya ftora i ego neorganicheskikh soedineniy), Goskhimizdat, Moscow, 1956, 718 pages. (Book)

Card 2/4

New technical literature. (Cont.)

136-4-20/23

I.S. Stepanov, "Rare Metals" (Redkie Metally), MTsM SSSR TsiIN, Moscow, 1956, 58 pages. (Book)

Machining of Metals. Metallurgy:

M.E. Blanter, L.I. Kuznetsov, M.G. Lozinskiy and E.A. Sindova, "Influence of alloying elements on the hardness of nickel alloys at high temperatures", *Izvestiya Akad. Nauk SSSR, Otd. Tekh. Nauk*, 1956, pp. 88 - 95. No.12, (Article)

S.Ya. Veyler, V.I. Likhtman and P.A. Rebinder, "Mechanism of the action of lubricants in the working of metals by pressure", *Dokl. Ak. Nauk SSSR*, 1956, pp. 985 - 988. Vol.110 No.6 (Article)

R.B. Golubtsova and L.A. Mashkovich, "Investigation of metallic compounds in nickel alloys containing aluminium." *Dokl. Ak. Nauk SSSR*, 1956, pp. 824-826. Vol.111, No.4. (Article)

M.I. Kochnev, "Correspondence of the temperatures of anomalous change in the properties of copper, its compounds and alloys" *Izvestiya AN SSSR, Otd. Tekh. Nauk*, 1956, No.12, pp.96-107, No.12 (Article)

D.I. Layner and Potemkin, A.Ya. "Rational method for annealing aluminized nickel". *TsiIN MTsM SSSR*, 1956, pp. 19-21. (Article)

Tarnovskiy, I.Ya., Pozdeev, A.A., and Lyashkov, V.B. "Deformation of metals during rolling" (*Deformatsiya metalla pri prok-atke*), Metallurgizdat, Sverdlovsk, 1956, 287 pages. (Book)

Card 3/4

New technical literature. (Cont.)

136-4-20/23

Usach, M.Ya. "Hydraulic presses П 646, П 648 and П 664 for pressing non-ferrous metal sections." Tekhniko-ekonomicheskoy Informatsii, 1956, pp. 8 - 10. Vol.11, No.11. (Article)

Economics:

A.I. But, "Planning and economics of non-ferrous metallurgical enterprises." (Planirovanie i ekonomika predpriyatiy tsvetnoy metallurgii), Metallurgizdat, Moscow, 1956, 270 pages. (Book)

AVAILABLE:

Card 4/4

DVT, A-1

Electrodeposition of finely dispersed particles

But, H. J.

Vibrating ball mill. A. T. Gal'man, A. I. Eyt, and S. A. Berzon. U.S.S.R. 107,190, Aug. 26, 1957. Structural details. M. H.

4

///

25(1)28(5)

PHASE I BOOK EXPLOITATION

SOV/3059

But, A. I.

Diskovyy elektricheskiy razdelitel'; pyl'ulavlivaniye, fraktsionirovaniye, separatsiya i termoobrabotka razlichnykh materialov v elektricheskom pole. (Electric Disk Separator; Dust Collecting, Fractionation, Separation and Heat Treatment of Various Materials in an Electric Field) Moscow, Gosstroy-izdat, 1959, 86 p. 3,000 copies printed.

Ed. of Publishing House: A. L. Shpayer; Tech. Ed.: L.M. Solntseva.

PURPOSE: The book is intended for engineering and technical personnel in the building and building-materials industries and for designers.

COVERAGE: The book describes the principle of operation and the constructional features of electric disk separators for collecting, classifying, and separating dust and the heat treatment of various dust clouds (and suspended matter) within the field of corona discharge. New flow sheets for the production of building materials with the application of

Card 1/4

Electric Disk Separator (Cont.)

SOV/3059

electric disk separators are described in detail; conditions for accomplishing these flow sheets and their advantages over methods now used in industry are presented. Basic initial data for designing electric disk separators are presented. The author describes devices of his own design for which he obtained a priority as of June 29, 1954, and an author's certificate on December 10, 1956. Experimental models of disk separators were produced and tested in 1953 at the Scientific Research Institute "Stroykeramika". Since 1956, at the "Giprostroyaterialy" Institute, work has been going on with the construction of industrial models of such devices. In the present work the following engineers and designers participated: S. G. Kvasnikov, V.V. Denisov, L. Ya. Borisenko, N.K. Zhdanova, N.D. Kondrat'yeva, and S.A. Berzon, Candidate of Technical Sciences. Important work concerning the action of corona discharge and its industrial applications was done by N.F. Olofinskiy, Candidate of Technical Sciences, Ye. M. Balabanov, Doctor of Physical and Mathematical Sciences, and S. P. Zhebrovskiy, Doctor of Technical Sciences. There are 17 references, all Soviet.

Card 2/4

Electric Disk Separator (Cont.)

SOV/3059

TABLE OF CONTENTS:

Introduction	3
Ch. I. Principle of Operation and Constructional Features	6
1. Properties of dispersion systems and effect of corona discharge	6
2. Construction of the electric disk separator	10
1). Electric disk separator DER-15	10
2). Electric disk separator DER-50	18
3). Electric disk separator DER-100	21
4). Power supplies	24
Ch. II. New Technological Schemes	31
1. Obtaining binding materials from metallurgical slag	31
2. Improvement of cement technology	36
3. Changing the flow sheet for quickline production	41
4. Improvements in the gypsum manufacturing process	42
5. Electroplating and manufacturing large-size ceramic products	44
Card 3/4	

Electric Disk Separator (Cont.)	SOV/3059
6. Electric dehydration of ceramic masses	52
7. Electrical enrichment of mineral raw material	54
8. Automatic production line of ceramic floor tiles	56
Ch. III: Initial Data For Designing	60
1. Distribution scheme for electrodes	62
2. Electrode dimensions	64
3. Spacing between electrodes	67
4. Dimensions of the chamber	76
5. Thermotechnical calculations	79
6. Examples of designing an electric disk separator	82
Bibliography	88
AVAILABLE: Library of Congress	
Card 4/4	JP/ec 1-27-60

RABINOVICH, A.Ye.; BUT, A.I.

Automatic electric dehydration of slip. Stek. i ker. 18 no.7:
18-19 JI '61. (MIRA 14:7)
(Ceramic industries--Electric equipment)

S/O94/62/000/002/001/002
E194/E485

AUTHORS: Popkov, V.I., Grigor'yev, V.V., But, A.I.

TITLE: Electronic-ionic technology in the national economy

PERIODICAL: Promyshlennaya energetika, no.2, 1962, 1-4

TEXT: This is a general article intended to familiarize production engineers and others with recent achievements in electronic-ionic technology. It is based on materials of the Scientific-Technical Commission of the former GNTK USSR of which V.I.Popkov was President. Electronic-ionic technology has three special features: firstly a wide range of materials can be treated in an electric field so that it is a very universal method; secondly, the process is continuous and subject to very fine control; and thirdly the electrical energy is directly applied to the object without intermediate conversion. The introduction of electronic-ionic technology can be revolutionary in many branches of industry. Thus, the use of electrical mixing and electrical forming in the manufacture of constructional materials could save hundreds of millions of roubles per year. The introduction of electrical flotation can provide an economic solution to problems of producing rare and dispersed elements such as rubidium, caesium, Card 1/4

Electronic-ionic technology ...

S/094/62/000/002/001/002
E194/E485

germanium, etc. Electronic-ionic processes are already partially being used for de-watering and de-salting crude oil, for trapping powdered products such as cement, for purifying industrial flue gases, for painting and for many other purposes. At the Gorkov'skiy avtozavod (Gor'kiy Automobile Works) the use of high-tension painting methods saves 300000 roubles per year and still greater economies have been achieved at other works. On delivery on a conveyor into the painting room, the product is charged whilst the paint spray is charged to the opposite sign. The method gives a better coat of paint with smaller paint consumption and is very convenient for automatic operation, each installation saves about 40000 roubles per year. The Katuarovskiy keramicheskii zavod (Katuarov Ceramic Works) is depositing powdered glaze on unfired tiles in an electrostatic field thus not only saving glaze but cutting out the preliminary firing of the tiles. Electrostatic methods are being used to produce textile materials with a pile such as artificial furs, carpets and others. Using electrical methods more than 1000 fibres can be placed vertically on one square millimetre of surface. An electrical spinning method is in the process of development, the idea being that the electrical

Card 2/4

Electronic-ionic technology ...

S/094/62/000/002/001/002
E194/E485

field would straighten and orientate the fibres and deliver them in the required direction. Electrical separation and electrical classification of materials is very promising. Polar particles can be separated from non-polar by attraction of the polar particles into the parts of the electrical field where the gradient is greatest. Electrical separation methods are widely used to concentrate coal and ores of rare elements, to regenerate mould materials in foundries and to produce high grade constructional materials. Electrical forming offers promise in the building industry. Pulverized materials can be deposited electrically on a shaped electrode or products of complicated shape can be formed, such as pipes, insulators, insulating and building materials. Electrical mixing of various components may be combined with the grading of the materials according to particle size and the like. Electrical fields may be used in printing to press the paper to the matrix, a latent image may be formed electrically on the paper which then attracts the ink. Although electronic-ionic methods are very promising they have not found really wide application and one of the main reasons for this is the

Card 3/4

Electronic-ionic technology ...

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E194/E485

lack of suitable equipment. Moreover, the problems involved are being studied independently by a wide range of institutes. Not enough work is really being done on the subject; for instance, there are many institutes trying to overcome the bad effects of corona discharge on transmission lines but relatively little effort is going into the use of corona discharge for industrial purposes. It is accordingly recommended to set up a Scientific Research Institute of Electronic-Ionic Technology. ✓

Card 4/4

BUT, A.I., inzh.

Wide possibilities for the introduction of electronic techniques.
Stroi.mat. 9 no.3:8-10 Mr '63. (MIRA 16:4)
(Electronics) (Building materials industry)

LUBMAN, A.M.; BURAS, T.M.; BUT, A.S.; PREOBRAZHENSKAYA, N.A.; KOVALEVA,
T.G.; UVAROVA, V.G.

Investigation in the field of alkyd resins. Report No. 5:
Synthesis of alkyd resins in the medium of solvents. Lakokras.
mat. i ikh prim. no.6:9-17 '61. (MIRA 15:3)
(Gums and resins)

L 01465-66 EMT(1)/EWP(m)/EP1(sp)-2/EPA(w)-2/T-2/EWA(m)-2 IJP(o)

ACCESSION NR: APS016853

UR/0382/65/0002/0055/0066

538.95 : 538.4

AUTHOR: ^{49.55} Bartinov, A. I.; ^{49.55} But, D. A.; ^{49.55} Vasyukevich, P. V.; ^{49.55} Kalugin, V. N. 52 B

TITLE: Designing channels for vortex flows of a weakly ionized gas in a transverse magnetic field

SOURCE: Magnitnaya gidrodinamika, no. 2, 1965, 55-66

TOPIC TAGS: MHD flow, turbulent flow, supersonic flow, subsonic flow

ABSTRACT: The behavior of a vortex flow of an ionized gas under the retarding force of a transverse magnetic field is studied. Magnetohydrodynamic equations 1, 49.55 are employed without the heat loss and heat transfer terms to describe radial flow in subsonic and supersonic regimes. Three types of channels are considered and it is shown that temperature and Joule heating depend on the channel contours; both behave differently in subsonic and supersonic regimes. The detailed analysis is limited to subsonic cases. Finite solutions are found for constant temperature, constant tangential velocity and constant Mach number. The Appendix contains the solution of the Abel's equation of the second kind. Orig. art. has: 91 formulas, 3 figures.

Card 1/2

L 01465-66

ACCESSION NR: AP5016653

ASSOCIATION: none

SUBMITTED: 01Feb65

ENCL: 00

SUB CODE: ME, EM

NO REF SOV: 003

OTHER: 000

Card 2/2

L 1155-66 EWT(1)/EWP(m)/EWA(d)/FCS(k)/EWA(1)

ACCESSION NR: AP5016342

UR/0281/65/000/003/0094/0095

532.517:538.122

AUTHOR: Bertinov, A. I. (Moscow); But, D. A. (Moscow)

TITLE: Method for maintaining a specified flow of a conductive gas in a transverse magnetic field

SOURCE: AN SSSR. Izvestiya. Energetika i transport, no. 3, 1965, 94-95

TOPIC TAGS: magnetohydrodynamics

ABSTRACT: Maintaining the specified isoparametric conditions of a magnetohydrodynamic flow is suggested by means of correcting the profile of the transverse magnetic field. By using an isothermic single-variable flow of a perfect conductive gas as an example, a general approach is shown to the problem of programming the design of an automatic-control system which would stabilize the gas-flow conditions. Orig. art. has: 1 figure and 9 formulas.

ASSOCIATION: none

SUBMITTED: 07Feb65

ENCL: 00

SUB CODE: ME, EN

NO REF SOV: 002

OTHER: 000

Card 1/1

BERTINOV, A.I. (Moskva); BUT, D.A. (Moskva)

Method for supporting a given flow condition in a conductive gas in a transverse magnetic field. Izv. AN SSSR. Energ. i transp. no.3:94-95 My-Je '65.

(MIRA 18:12)

1. Submitted February 7, 1965.

BERTINOV. A.I.; BUT, D.A.; KALUGIN, V.N.

Magnetic systems of magnetogasdynamic machines. Mag. gidr. no.3:145-
154 '65. (MIRA 18:10)

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AUTHOR: Bertinov, A.I.; But, D.A.; Kalugin, V.N.

ORG: None

TITLE: Magnetic systems for rotating plasma magnetohydrodynamic machines

SOURCE: Magnitnaya gidrodinamika, no. 3, 1965, 145-154

TOPIC TAGS: magnetohydrodynamic generator, plasma generator design, plasma generator magnet, plasma generator magnet theory

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ABSTRACT: The paper deals with configuration choice and with design parameters determination for magnetic systems of magnetohydrodynamic generators. Efficient design of the magnetic system is here of importance because of its overwhelming relative weight. Two magnetic winding configurations are discussed. System I, with internal winding, Fig. 1, and system II, with external winding, Fig. 2. In the figures, ϕ_p is the working flux; ϕ_{σ_1} , ϕ_{σ_2} are the stray flows of the winding, and ϕ_{σ_3} is the interpole stray flux. System I has the advantage of low weight and convenient plasma intake, but suffers from yoke saturation and from difficulties with plasma effusion. Its stray flux coefficients in representative designs are less than or equal to 1.5. System II does not have the above disadvantages, but its longer length of the average winding turn leads to an increased weight. Its stray flux coefficients in representative designs are equal to or larger than 2.0. The system has also difficulties with plasma entry. Formulas

Card 1/2

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for flux scattering coefficients and for design parameters are evolved, and recommendations for system configuration selection are offered. Orig. art. has 5 figs, 36 formulas.

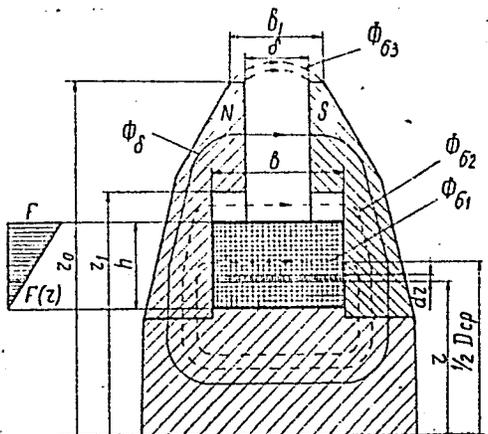


Fig. 1. Sketch of System I magnetic system.

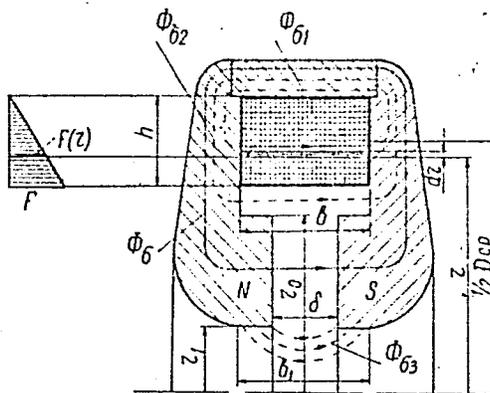


Fig. 2. Sketch of magnetic system II

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AUTHOR: Bertinov, A. I. (Moscow); But, D. A.; Kalugin, V. N.; Vasyukevich, P. V.
Vasyukevich, P. V. (Moscow)

ORG: None

TITLE: The approximate computation of the variation in the electric conductivity of a gas in a vortex magnetohydrodynamic flow

SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 1, 1966, 66-72

TOPIC TAGS: MHD flow, electric conductivity, gas conductivity

ABSTRACT: A majority of articles devoted to the investigation of vortex MHD flow average out gas conductivity and assume it to be constant. It is known, however, that the conductivity of a weakly ionized gas depends on pressure and to a considerable degree on temperature which may vary substantially along the radius during axisymmetric twisting of a conducting gas in an axial magnetic field. The present authors perform an analysis of vortex MHD flow with the assumption that conductivity depends on temperature as a power function. An ideal conducting gas is studied with part of the total enthalpy being converted to electric power. The authors demonstrate the influence of taking into account the variations of conductivity on the basic parameters of the flow. Orig. art. has: 6 figures and 42 formulas.

Card 1/2

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